

**METHOD FOR THE PRODUCTION OF A CHEMICAL REACTION  
PRODUCT WITH THE AID OF A FIXED-BED REACTOR**

**ABSTRACT OF THE DISCLOSURE**

Disclosed is a method for producing at least one chemical reaction product by chemically reacting one or several reactants that is/are optionally dissolved in one or several solvents and is/are supplied as a feed stream by bringing the same in contact with a heterogeneous catalyst in a continuously operated fixed-bed reactor which is filled with a particle bed, a continuous annular chromatograph (CAC) that is filled with the particle bed being used as a fixed-bed reaction in which the at least one reaction product is formed and purified while the at least one purified reaction product as well as optionally provided secondary products and/or non-reacted reactants are withdrawn at a different, predetermined azimuthal position of the annular chromatograph, respectively. The inventive method is characterized in that only one type of particle material is used in a single particle bed as both a formation catalyst and a chromatographic medium for purifying the at least one reaction product in the particle bed.

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